

WHAT IS CLAIMED IS:

1. A carbon black having organic groups that are linked to the carbon black via at least one sulfide- and/or polysulfide bridge.

2. The carbon black with organic groups according to claim 1 having the formula  $R-S_X-R$  in which

$R$  = alkyl, alkyl functionalized by  $Y$ , polymers, cyclic organic groups, aryl, aryl  $ArY_n$  with  $n = 1-5$  functionalized by  $Y$ ,

$Y = -OH, -SH, -SO_3H, -SO_3M, -B(OH)_2, -O(CH_2-CH_2-O)_n-H, -COOH, -COOM, -NH_2, -NR_2, -N((CH_2-CH_2-O)_nH)_2, CON((CH_2-CH_2-O)_nH)_2, \text{trialkoxysilyl, perfluoroalkyl, } R^2, -NH_3^+, -NR_3^{2+}, -SO_2-NR_2^2, -NO_2, -Cl, -CO-NR_2^2, -SS-, -SCN$  with

$R^2 = \text{aliphatic group, a cyclic organic group, an organic compound with an aliphatic and a cyclic part that is substituted or unsubstituted, branched or unbranched, chromophoric groups or dyes and}$

$X = 1-8.$

3. A carbon black with organic groups that is obtained by reacting organic compounds with the general formula  $R-S_y-R$  in which  $y = 2-10$  and  $R$  has the meaning cited above.

4. A method of producing the carbon black of claim 1, comprising the step of reacting a carbon black and a compound of formula  $R-S_y-R$  in which  $y = 2-10$  and  $R$  has the meaning cited above wherein the two  $R$  groups are identical or different.

5. The method according to claim 4, wherein the reaction is carried out in a solvent.

6. The method according to claim 4, wherein the reaction is carried out without solvent.

7. A filler, reinforcing filler, conductivity black, pigment and UV stabilizer in rubber, ink, dye, inkjet ink, printing ink, paint, concrete, plastic, construction material, paper or bitumen comprising a carbon black according to one of claims 1 - 3.